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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 09/09/2008

Attention: Eric D. Levinson Imation Corp. Legal Affairs P.O. Box 64898 St. Paul. MN 55164-0898 EXAMINER
PAIXIETT, MARIANNE L

PAPER NUMBER

ART UNIT

DATE MAILED: 09/09/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.				
10/807,821	03/24/2004	Jathan D. Edwards	1042US01	4332				
TITLE OF INVENTION: HOLOGRAPHIC MEDIA FABRICATION TECHNIQUES								

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/09/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further a indicated unless correcte	form should be used for correspondence includir d below or directed oth	or transing the Parierwise i	nitting the ISSU stent, advance of n Block 1, by (a	TE FEE and PUBLICATI ders and notification of r a) specifying a new corres	ON FEE (if requestion in the contract of the c	ired). I vill be and/o	Blocks 1 through 5 sh mailed to the current (b) indicating a sepa	ould be completed where correspondence address as rate "FEE ADDRESS" for
maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Not Feet paps	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
Attention: Eric Imation Corp. Legal Affairs	7590 09/09 D. Levinson	/2008		Lbe	Cer reby certify that th	tificate	of Mailing or Transi	
P.O. Box 64898 St. Paul, MN 551	64 0000							(Depositor's name)
St. I aut, MIN 551	104-0030							(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/807,821	03/24/2004			Jathan D. Edwards			I042US01	4332
TITLE OF INVENTION:	HOLOGRAPHIC MEI	DIA FAB	RICATION TEC					
APPLN. TYPE	SMALL ENTITY	ISSU	E FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300	\$0		\$1740	12/09/2008
EXAM	INER	А	RT UNIT	CLASS-SUBCLASS				
PADGETT, M	ARIANNE L		I792	427-508000				
"Fee Address" indi PTO/SB/47; Rev 03-0; Number is required. 3. ASSIGNEE NAME AT		" Indicati ed. Use o A TO BE	on form of a Customer PRINTED ON	(1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be FHE PATENT (print or typ data will appear on the p T a substitute for filine an	vely, e firm (having as a agent) and the nam rneys or agents. If printed.	memb es of u no nan	er a 2 p to se is 3	cument has been filed for
(A) NAME OF ASSIC	ate assignee category or	categori			Individual 🚨 Co	orporati	on or other private gro	up entity Government
Advance Order - #	o small entity discount p			 Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo 	d. Form PTO-2038	is atta	ched. required fee(s), any def	
	SMALL ENTITY state	is. See 37		b. Applicant is no lon				
interest as shown by the r	ecords of the United Sta	tes Paten	t and Trademark	Office.	ne applicant, a regi		morney or agent, or th	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration N			
This collection of informa an application. Confident submitting the completed this form and/or suggestie Box 1450, Alexandria, V. Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu- irginia 22313-1450. DC (3-1450.	FR 1.31 U.S.C. 1 USPTO rden, sho O NOT SI	I. The informatic 22 and 37 CFR Time will vary uld be sent to the END FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by t imated to take 12 idual case. Any co er, U.S. Patent and D THIS ADDRESS	he pub minuter mment Trader 5. SEN	ic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/807,821	03/24/2004	Jathan D. Edwards	1042US01	4332	
7.	590 09/09/2008	EXAM	EXAMINER		
Attention: Eric D. Levinson			PADGETT, MARIANNE L		
Imation Corp.			ART UNIT	PAPER NUMBER	
Legal Affairs P.O. Box 64898		1792 DATE MAILED: 09/09/200	8		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 717 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 717 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/807.821 EDWARDS ET AL. Notice of Allowability Examiner Art Unit MARIANNE I PADGETT 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 5/29/2008, 2/5/2008 & 2/1/2008. The allowed claim(s) is/are 10-16 and 18-20. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. ☐ Examiner's Amendment/Comment Paper No./Mail Date 2/5/8 8. X Examiner's Statement of Reasons for Allowance 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 9. ☐ Other . /Marianne L. Padgett/

Primary Examiner, Art Unit 1792

Application/Control Number: 10/807,821

Art Unit: 1792

1. The following is an examiner's statement of reasons for allowance: applicants amendments of 5/29/2008 (replacing noncompliant amendment of 2/1/2008), plus their arguments made in the response of 2/1/2008, have corrected the 112 problems as set forth in the action mailed 10/4/2007, particularly noting that their comments concerning the beating of "multi-chemistry... formulation" clarify the meaning of this terminology, thus providing file wrapper estoppel for the meaning of the limitation as employed in the claims. Additionally, the amendment of independent claim 10 has added the limitations with clarifications from dependent claim 17, plus additional limitations that were not previously present in the claims, providing a clear sequence of processing steps for the claimed fabrication of a holographic data storage medium that is sufficiently differentiated & unobvious over cited & applied prior art, so as to overcome the rejections as set forth in the action mailed 10/4/2007.

The examiner additionally notes that while references cited in the 2/5/2008 IDS are directed to various injection molding processes, they do not deal with mixing processes associated therewith, however it is noted that JP 61-126648 has a configuration that is substantially similar to Eichlseder (6425968 B1), which was applied in the previous art rejection & JP 63-124247 has a configuration that appears more consistent with the present claim language, injecting adhesive between two substrates to a central hole at one substrate, however like Eichlseder, it is an adhesive that does not appear to require mixing immediately before injection.

Other art of interest retrieved during the update & interference search included: Navarro et al. (7287899 B2) & Jähn et al. (7390121 B2), which are of interest to the state-of-the-art for further teaching on stage at mixing of multi-component fluids for in-line processes, however do not supply missing elements as former is initiating polymerization in the mixer, & the latter appears to solely deal with generic mixing in a pipeline. Additionally, Hananaka (2008/0029914 A1), Wagner et al. (7320541 B2) & Reis et al. (7357564 B2) discuss further mixing & pumping systems for plural components, but are not prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Marianne L. Padgett whose telephone number is (571) 272-1425. The
examiner can normally be reached on M-F from about 9:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks, can be reached at (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Marianne L. Padgett/ Primary Examiner, Art Unit 1792

MLP/dictation software

9/1/2008